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NEMORANDUM FOR: Deputy Director of Central Intelligence

THROUGH

Executive Director-Comptroller Director, Office of Planning, Programming

Assistant Deputy Director for Intelligence

SUBJECT

Request for Approval to Contract for the Design and Fabrication of a Dual Format Data Block Reader with Fairchild Space & Defense Systems Division at a Cost of from FY-1972 R&D Funds

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- I. This memorandum requests approval for the commitment of R&D funds for an NPIC contract. The specific request is stated in paragraph nine.
- The National Photographic Interpretation Center, through NSCID #8 and the Mational Tasking Plan, is charged with providing the most effective, timely, and economic exploitation of photography and remote sensory products. The Center is also charged with providing certain additional support to the intelligence community, such as updating and maintaining the National Data Base and maintaining a back-up ephemeris capability. The manual,

Page 9 states: "NPIC will maintain a back-up capability to the Mission Performance Report (MPR). In the event the MPR cannot be made available, NPIC will develop ephemoris and frame data based on telemetry tapes provided from the and actual film formats. This information will then be made available to all MPR recipients."

J. While NPIC has been aware of this general "backup data" requirement for quite some time, a new responsibility has recently been introduced. Latest reports indicate that the MPR, which precedes each mission, will not contain the time data readout required for data reduction of the Mapping Camera System in the

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this information is contained only in the binary data block recorded on the film. Therefore, it will be necessary for NPIC to read the time data from each frame of Stellar/Terrain photography after receipt of the film in the Center. This information will enable NPIC to:

a. Accurately update the National Data Base.

b. Provide Center components with precise data

for positioning targets.

c. Provide the mapping community with data of the accuracy required in charting and mapping.

In this regard, the main camera system time readout (which is included in the 'PR) will not suffice for the Mapping Camera System since the two systems are separately operated, and it is possible that the conjugate imagery can have as much as 100%, or as little as 0%, common coverage between the terrain camera and the main panoramic cameras.

- Investigation into the process of manually providing this readout has shown that, for the 4000 frames of information involved, it may be possible (through interpolation) to provide this data within one working week. However, the inherent accuracy provided by the attitudinal system (time readout to 0.1 millisecond) cannot be maintained through an interpolation of the data. Additionally, approval has now been granted to replace the 3400 type film with ultrathin base film in the fourth stellar/terrain package; this will increase the frame count from approximately 4000 frames to approximately 7000 frames -- virtually an impossible task for manual readout. It is anticipated that Center operations will require, and make the utmost use of, this refined accuracy inherent in the Stellar/Terrain system, as it will furnish target positional information an order of magnitude. more accurate than current systems. Additionally, the Mapping, Charting and Geodetic (MCG) groups in the intelligence community will use the data for position refinement in their exploitation.
- 5. The proposed Dual Format Data Block Reader (DFR) will provide the capability of rapidly and accurately reading time data from both the stellar and terrain camera formats

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tive, or rate of 1 organize, priate rette NPIC block will in the NPI existing select a received	positive film- inches per se and place the cognition patte central compute be combined w IC computer and IPR of the miss mode of operati	two predetermination while the filst cond. The DFF data on magnet erns-for subsect. The data is with that from the in turn, into in turn, into in turn, into in the front part of the first part	is transport will locate ic tapewith quent process from the stell the terrain of egrated with tor will be a signals, monitored assembly	ted at a read, read, approsing by lar data lata block the late to tor, and of the DFR.	
a minimum	of technical r	felt to be fair	lue to the fac	ct that	
readers fo	or the Conter.	has, in the pa The first rea aile the second	der was built	to accommod	ate

into a modification of the second reader to handle material revealed that it would be more expensive to modify the existing equipment than to build a new reader specifically

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7. The contractor has offered NPIC two optional approaches. Under the first option, the contractor will build the reader and supply both the magnetic tape drive and the printer. Under the second option, the centractor would supply only the reader; the magnetic tape drive and its electronics, and the printer and associated electronics would be supplied as GFE. The second option is the most desirable. First, it saves and second, the equipment can readily be supplied as GFE using components from the previously completed systems. Only one of these systems is currently being utilized by NPIC. There is no anticipated follow-on to this procurement, since

one instrument will handle the anticipated workload.

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	Fairchild Space & D	efense Systems	Division at a
•	Cost	on FY-1972 R&D	Funds

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9. It is requested that approval be granted to negotiate a contract with Fairchild Space and Defense Systems for the design and fabrication of a Dual Format Data Block Reader at a cost not to exceed from FY-1972 R&D funds.

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ARTHUR C. LUNDAHL Director National Photographic Interpretation Center

Attachments:

- 1. Proposal
- 2. Form 2420

CONCUR:

Assistant Deputy Director for Intelligence

Date

APPROVED:

Deputy Director of Central Intelligence

Date

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